UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

DATE MAILED: 03/30/2009

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

22428 7590 03/30/2009
FOLEY AND LARDNER LLP
SUITE 500
3000 K STREET NW

WASHINGTON DC 20007

EXAMINER						
AMINZAY, SHAIMA Q						
ART UNIT	PAPER NUMBER					
2618	•					

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/564,552	01/13/2006	Takumi Ito	016778-0503	1857	

TITLE OF INVENTION: TRANSMITTER APPARATUS, RECEIVER APPARATUS, AND RADIO COMMUNICATION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	ed below or directed oth	ng the Patent, nerwise in Blo	advance o	rders and notification a) specifying a new o	of n	naintenance fees v pondence address:	vill be and/or	mailed to the current (b) indicating a sepa	correspondence ate "FEE ADI	address as DRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
22428	7590 03/30	/2009						of Mailing or Transi		
SUITE 500 3000 K STREET					I her State addr trans	reby certify that the es Postal Service vessed to the Mail smitted to the USP	is Fee(s vith suf Stop TO (57)	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited with class mail in a above, or being te indicated bel	the United n envelope g facsimile low.
WASHINGTON	N, DC 20007								(Dep	ositor's name)
										(Signature)
										(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE I			FIRST NAMED INVEN	INTOR ATTORNEY DOCKET NO.			CONFIRMATI	ON NO.	
10/564,552	01/13/2006			Takumi Ito				016778-0503	1857	
TITLE OF INVENTION	: TRANSMITTER APP.	ARATUS, REG	CEIVER A	PPARATUS, AND R	ADI	O COMMUNICAT	TION S	YSTEM		
APPLN, TYPE	SMALL ENTITY	ISSUE FEI	DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE I	DUE
nonprovisional	NO	\$151	0	\$300		\$0		\$1810	06/30/	2009
EXAM	IINER	ART U	TIV	CLASS-SUBCLASS	S					
AMINZAY,		2618		455-069000						
1. Change of correspondence address or indication of "Fee Address" (3: CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form FTO/8122) attached.  The Address' indication (or "Fee Address" Indication form FTO/8147; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			ondence	(1) the names of or agents OR, alte (2) the name of a registered attorner 2 registered patent	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agent. If no name is 3 sites, no name with perinted.					
(A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no pletion of this f	assignee orm is NO	data will appear on t T a substitute for filin (B) RESIDENCE: (6	the page and CITY	atent. If an assign assignment. and STATE OR C	OUNT	RY)		
Please check the appropr	iate assignee category or	categories (wi	II not be p	rinted on the patent):		Individual UC	orporati	on or other private gro	up entity 🖵 G	overnment
Advance Order -	vo small entity discount p		4	A check is enclosed.  Payment by cred  The Director is he	sed. it can ereby	d. Form PTO-2038	is atta	equired fee(s), any det		lit any his form).
<ol> <li>Change in Entity Sta</li> <li>Applicant claim</li> </ol>	tus (from status indicate is SMALL ENTITY statu		1.27.	☐ b. Applicant is no	o lon:	ger claiming SMA	LLENT	TITY status. Sec 37 CF	R 1.27(g)(2).	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not tes Patent and	be accepte Trademark							her party in
Authorized Signature						Date				
Typed or printed name					Registration N	ło				
This collection of inform an application. Confiden submitting the complete this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	FR 1.311. The U.S.C. 122 an USPTO. Tim rden, should be O NOT SEND I	information of 37 CFR will vary sent to the FEES OR	on is required to obtain 1.14. This collection of depending upon the e Chief Information C COMPLETED FORM	n or r is est indiv Office IS TO	etain a benefit by t imated to take 12 idual case. Any co r, U.S. Patent and O'THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa O TO: Commissioner i	by the USPTO g gathering, pre the you require to rtment of Common Patents, P.O.	to process) paring, and o complete merce, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



### UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandra, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/564,552	01/13/2006	Takumi Ito	016778-0503	1857		
22428 7.	590 03/30/2009	EXAMINER				
FOLEY AND LA	ARDNER LLP	AMINZAY, SHAIMA Q				
SUITE 500			ART UNIT	PAPER NUMBER		
3000 K STREET I WASHINGTON,		2618 DATE MAILED: 03/30/2009				

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 626 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 626 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

#### Application No. Applicant(s) 10/564.552 ITO ET AL. Notice of Allowability Examiner Art Unit SHAIMA O AMINZAY 2618 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 2/11/2009. The allowed claim(s) is/are 7-10,12-15,18-21,23-26 and 29-32. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

Application/Control Number: 10/564,552 Page 2

Art Unit: 2618

## DETAILED ACTION

This office action is in response to applicant's amendment/remarks filed 2/11/2009. Claims 7-10, 12-15, 18-21, 23-26, and the new added claims 29-32 are pending. Claims 1-6, 11, 16-17, 22, and 27-28 are cancelled.

# Response to Arguments

#### Noticed:

Applicant's **REMARKS** phrase "Claims 10, 15, 21, and 26 currently being cancelled" (page 8, line 4) is incorrect, according to the enclosed amended claims (2/11/2009) the correct phrase is "-- Claims 11, 16, 22, and 27 currently being cancelled --", the phrase "claim 10" (page 9, line 20) is incorrect, according to the enclosed amended claims (2/11/2009) the correct phrase is "-- claim 11 --".

- Response to argument with respect to objected Claim 8-9, 13-14, 19-20, and 24-25 is
  moot as the amendments to claims overcome the objection, therefore, the Claim
  Objections with respect to claims Claim 8-9, 13-14, 19-20, and 24-25 withdrawn.
- Response to argument with respect to rejected claims 18-27 under Claim Rejections-35
   USC 112 First Paragraph is moot as the applicant arguments are persuasive and the
   amendments to claims overcome the rejection, therefore, the Claim Rejections-35 USC

Application/Control Number: 10/564,552 Page 3

Art Unit: 2618

112 First Paragraph with respect claims 18-27 withdrawn.

Response to argument with respect to rejected claims 7-16, and 18-27 under Claim
Rejections-35 USC 102(e) is moot as the amendments to claims overcome the rejection
and applicant's arguments are persuasive, therefore, the Claim Rejections-35 USC 102(e)
with respect claims 7-16, and 18-27 withdrawn.

# Allowable Subject Matter

4. Claims 7-10, 12-15, 18-21, 23-26, and 29-32 are allowed.

# Reasons for Allowance

 The following is an examiner's statement of reason for allowance: see applicant's Arguments/Remarks, filed 2/11/2009, pages 8-10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Application/Control Number: 10/564,552 Page 4

Art Unit: 2618

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 571-272-7874. The examiner can normally be reached on 7:00 AM -4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew D. Anderson can be reached on 571-272-4177. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/SHAIMA Q. AMINZAY/ Examiner, Art Unit 2618

March 22, 2009

/Matthew D. Anderson/ Supervisory Patent Examiner, Art Unit 2618